



TECHNICAL NOTES

Using a networked BrightSign player to display multiple IP camera streams

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INTRODUCTION

You can use a networked BrightSign player (HD220, HD1020, XD230, XD1030, XD1230) combined with the Axis M1103 or M1113 Network Camera, to create a surveillance or monitoring network similar to a CCTV (closed-circuit television) system. You will be able to display two live-video streams from a local, networked source on one screen. Here are a few cases where a system like this would be helpful:

- You need to monitor both the front and back entrance of a store, building, or warehouse.
- You want to maintain the quality of customer-cashier interactions at a retail location, so you need to see both the customer and cashier in action at the same time.

The applications of a dual-video monitoring system are numerous. Furthermore, you can utilize many Axis cameras, linked together on the same local network, to scale your monitoring system as large as you would like.

This technical note will describe in detail how to set up dual live-video streams for the BrightSign HD220 or HD1020. First, we will outline how the hardware should be set up and how the different devices work together. Second, we will go through the steps of configuring the Axis M1103 or M1113 cameras for use with the BrightSign player. Finally, we will explain how to create BrightAuthor presentations that will utilize two live-video streams.

Note If you have any questions, please contact [technical support](#).

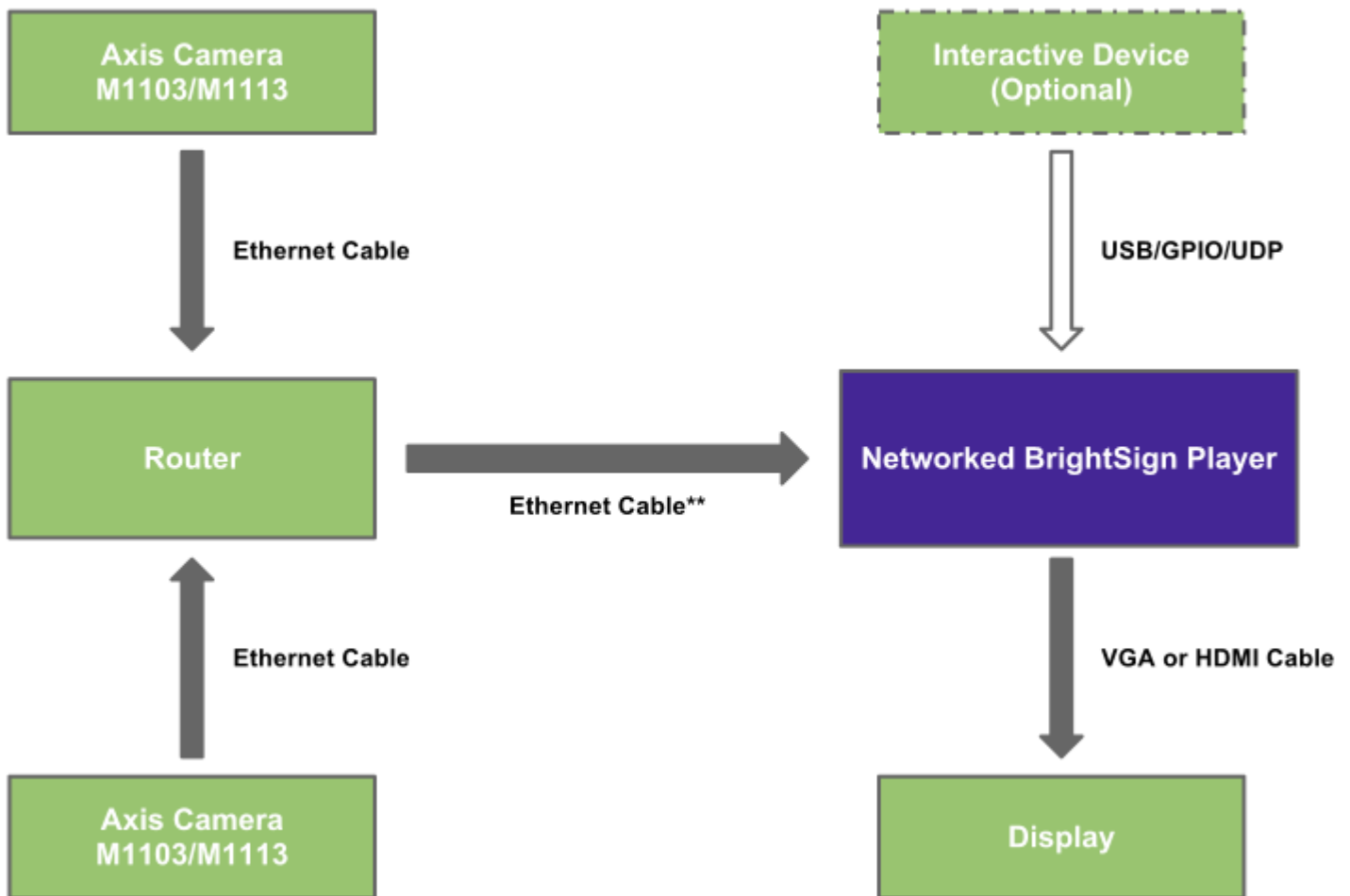
HARDWARE

You will need the following hardware to complete this project:

- 1x BrightSign player (HD220, HD1020, XD230, XD1030, or XD1230)
- 2x Axis M1103 (or M1113) Network Cameras

Note: *One camera will use RTSP streaming and the other will use MJPEG streaming.*

- 1x home or small office network router
- 3x RJ45 Ethernet cable
- 1x digital monitor or display



**An XD player can also connect to a router wirelessly if a [Wireless Module](#) is installed on the player.

CAMERA SETUP

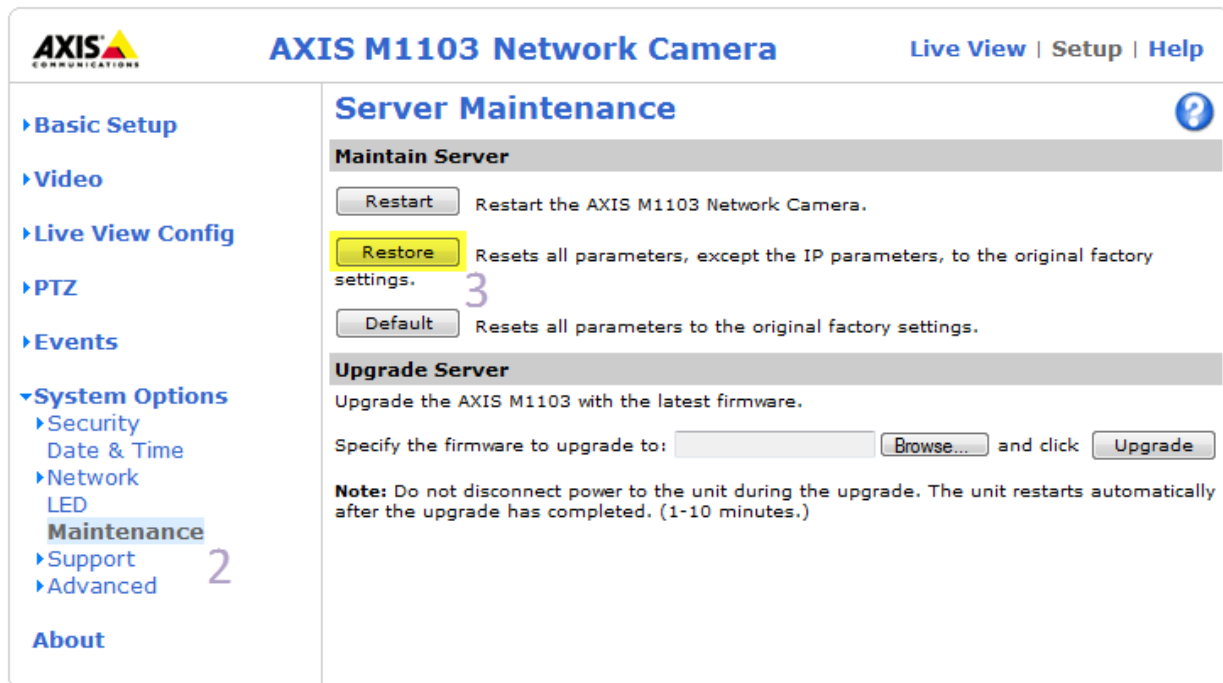
You will need to configure the settings of the Axis cameras separately: the first will be set up as an RTSP source; the second will be set up as an MJPEG source. Changes to the camera will not be recognized by the BrightSign player until the power supply of the player is unplugged and then plugged in again.

If you accidentally lose the default settings for the Axis camera, refer to the [Appendix of Screenshots](#) for a complete catalogue of screenshots for the Axis camera settings pages.

RTSP Camera

To access the web interface for your Axis Network Camera, enter its IP address into the address bar of your web browser. You can designate the IP address with the setup utility that comes with the camera. All RTSP cameras in this guide use this address: 192.168.1.15

1. Log in to the web interface for the network camera. If you have not set up a user name or password for the interface yet, provide the default credentials:
 - a. User Name: root
 - b. Password: admin



2. Click the **Setup** tab on the top right of the screen. Then navigate to **System Options > Maintenance** in the left-hand directory.
3. Click the **Restore** button (avoid selecting either **Restart** or **Default**).
4. Wait 3 minutes for the network camera to restore and restart.

5. Set the password to "dtcamera".



Create Certificate

Secure configuration of the root password via HTTPS requires a self-signed certificate.

Create self-signed certificate...

Configure Root Password using HTTP

User name: root


Password:

Confirm password:

OK

The password for the pre-configured administrator root must be changed before the product can be used.

If the password for root is lost, the product must be reset to the factory default settings, by pressing the button located in the product's casing. Please see the user documentation for more information.



AXIS M1103 Network Camera

[Live View](#) | [Setup](#) | [Help](#)

▼ Basic Setup

Instructions

1 Users 7

2 TCP/IP

3 Date & Time

4 Video Stream

► Video

► Live View Config

► PTZ

► Events

► System Options

About

Users

User List

User Name	User Group	User Info
root	Administrator	

Add... Modify... Remove

HTTP/RTSP Password Settings

Allow password type: Encrypted & unencrypted ▼

User Settings

☒ Enable anonymous viewer login (no user name or password required)

☐ Enable anonymous PTZ control login (no user name or password required)

☒ Enable Basic Setup

Save Reset

6. Click the **Setup** tab on the top right of the screen. Then navigate to **Basic Setup > Video Stream** in the left-hand directory. Make sure the following properties are set correctly and then click the **Save** button at the bottom of the page:
 - a. The **Resolution** is set to “640x480 (4:3)”.
 - b. The **Mirror image** box is unchecked.
 - c. The **Rotate image** field is set to 0 degrees.
7. Navigate to **Basic Setup > Users** in the left-hand directory.
8. Under **User Settings**, check the **Enable anonymous viewer login** box.
9. Click the **Save** button at the bottom of the page.
10. Navigate to the **Live View** page located on the top right of the screen to ensure that the video is displayed correctly.

AXIS M1103 Network Camera Live View | Setup | Help

Basic Setup
 Instructions
 1 Users
 2 TCP/IP
 3 Date & Time
 4 **Video Stream** 6

Video Stream Settings ?

Image **H.264** **MJPEG**

Image Appearance

Resolution: **640x480 (4:3)** pixels Digital PTZ: Disabled

Compression: **30** [0..100] 6a

☐ **Mirror image** 6b

Rotate image: **0** degrees 6c

Video Stream

Maximum frame rate:

☒ Unlimited

☐ Limited to [] [1..30] fps per viewer

Overlay Settings

☐ Include overlay image at the coordinates: X **0** [0..] Y **0** [0..]

☐ Include date ☐ Include time

☐ Include text: []

Place text/date/time at **top** of image

Preview

View image stream while configuring. Video format: **MJPEG** Open...

Save **Reset**



AXIS M1103 Network Camera

[Live View](#) | [Setup](#) | [Help](#)

Stream profile

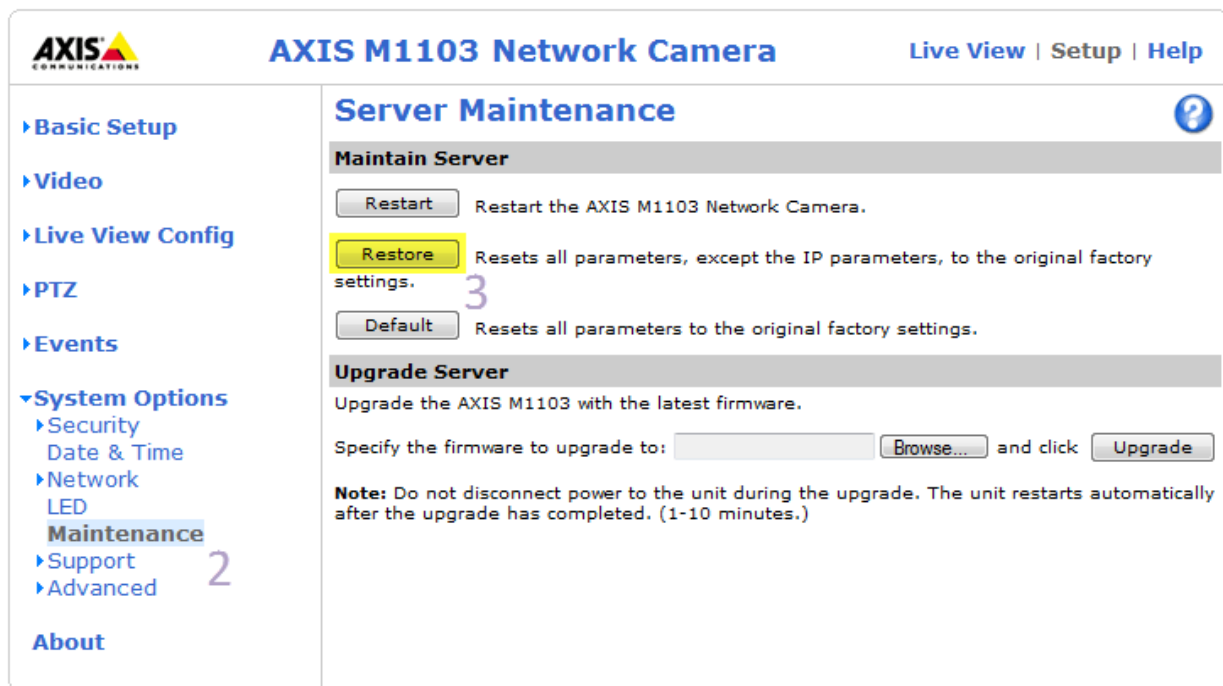
Motion JPEG ▾



MJPEG Camera

To access the web interface for your Axis Network Camera, enter its IP address into the address bar of your web browser. You can designate the IP address with the setup utility that comes with the camera. All MJPEG cameras in this guide use the following address: 192.168.1.13

1. Log in to the Web interface for the network camera. If you have not set up a user name or password for the interface yet, provide the default credentials:
 - a. User Name: root
 - b. Password: admin
2. Click the **Setup** tab on the top right of the screen. Then navigate to **System Options > Maintenance** in the left-hand directory.



3. Click the **Restore** button (avoid selecting either **Restart** or **Default**).
4. Wait 3 minutes for the network camera to restore and restart.
5. Set the password to "dtcamera".



Create Certificate

Secure configuration of the root password via HTTPS requires a self-signed certificate.

[Create self-signed certificate...](#)

Configure Root Password using HTTP

User name: root

Password:

Confirm password:

OK

The password for the pre-configured administrator root must be changed before the product can be used.

If the password for root is lost, the product must be reset to the factory default settings, by pressing the button located in the product's casing. Please see the user documentation for more information.



AXIS M1113 Network Camera

[Live View](#) | [Setup](#) | [Help](#)

Basic Setup

[Instructions](#)

[1 Users](#)

[2 TCP/IP](#)

[3 Date & Time](#)

[4 Video Stream](#)

[5 Focus](#)

Video

Live View Config

PTZ

Events

System Options

About

Video Stream Settings



Image

H.264

MJPEG

Image Appearance

Resolution: 640x480 (4:3) pixels

[Digital PTZ](#): Disabled

Compression: 30 [0..100]

☐ Mirror image

Rotate image: 0 degrees

Video Stream

Maximum frame rate:

☒ Unlimited

☐ Limited to [1..30] fps per viewer

Overlay Settings

☐ Include overlay image at the coordinates: X 0 [0..] Y 0 [0..]

☐ Include date ☐ Include time

☐ Include text:

Place text/date/time at top of image

Preview

View image stream while configuring.

Video format: MJPEG

[Open...](#)

[Save](#)

[Reset](#)

6. Click the **Setup** tab on the top right of the screen. Then navigate to **Basic Setup > Video Stream** in the left-hand directory.
 - a. Set **Resolution** to “640x480 (4:3)”.
 - b. Leave the **Mirror image** box unchecked.
 - c. Set **Rotate image** to 0 degrees.
 - d. Click the **Save** button at the bottom of the page.

AXIS M1113 Network Camera Live View | Setup | Help

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User Name	User Group	User Info
root	Administrator	

Add... Modify... Remove

HTTP/RTSP Password Settings
Allow password type: Encrypted & unencrypted ▼

User Settings

☒ Enable anonymous viewer login (no user name or password required) 8
☐ Enable anonymous PTZ control login (no user name or password required)
☒ Enable Basic Setup

9 Save Reset

7. Navigate to **Basic Setup > Users** in the left-hand directory.
8. Under **User Settings**, check the **Enable anonymous viewer login** box.
9. Click the **Save** button at the bottom of the page.
10. Navigate to **Video > Stream Profiles**.

Basic Setup

Video

[Video Stream](#)
[Stream Profiles](#)
[Camera Settings](#)
[Overlay Image](#)
[Privacy Mask](#)

Live View Config

PTZ

Events

System Options

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Stream Profile List

Stream Profile List

Name	Description	Video enc.
Quality	Best image quality and full frame rate.	H.264
Balanced	Medium image quality and frame rate.	H.264
Bandwidth	Low bandwidth with medium image quality.	H.264
Mobile	Mobile device settings.	H.264

[Add...](#)
[Copy...](#)
[Modify...](#)
[Remove](#)

Stream Profile Settings

Stream Profile

Profile name:

Video encoding: MJPEG

Description:
Image
H.264
MJPEG

Image Appearance

☒ Resolution:
☒ Compression: [0..100]

☒ Mirror image: Off

Video Stream

☒ Maximum frame rate:

Unlimited
☐ Limited to [0..30] fps

Overlay Settings

☒ Text and/or image overlay

☐ Include date

☐ Include time

☐ Include text:

Place text/date/time at top of image

☐ Include image overlay (using default image and coordinates).

Preview

View image while configuring.

[Show](#)
[OK](#)
[Cancel](#)

11. Click **Add** to bring up the **Stream Profile Settings** window.
 - a. Type “mjpeg” into the **Profile name** field.
 - b. Set the **Video encoding** option to “MJPEG”.
 - c. Set the **Resolution** to 160x120(4:3).

Optional

The **Resolution** is set to 160x120 to ensure an optimal framerate. The resolution in this profile must match the Mjpeg streaming zone created in your BrightAuthor presentation. Therefore, if you want a larger Mjpeg video window in your presentation, you must increase the resolution in the **Stream Profile Settings** window as well.

Stream Profile Settings

Stream Profile

Profile name: Video encoding:

Description:

Image **H.264** **MJPEG**

Frame Size Control

☒ Maximum frame size:

12a ☒ Default

☐ Limited to kbytes

Preview

View image while configuring.

12b

- d. Enter 30 into the **Compression** field.
- e. Set **Mirror image** to “Off”.
- f. Set the **Maximum frame rate** to “Unlimited”.

Note

Make sure the box next to each option is checked. Otherwise, you will not be able to modify the settings.

- 12. Select the **MJPEG** tab located above **Image Appearance**.
 - a. Make sure the **Maximum frame size** is set to **Default**.
 - b. Click **OK** at the bottom to close the **Stream Profile Settings** window.

The screenshot shows the web interface for an AXIS M1113 Network Camera. The top navigation bar includes the AXIS logo, the camera model name, and links for Live View, Setup, and Help. A left sidebar contains a menu with options like Basic Setup, Video, Live View Config, PTZ, Events, System Options, and About. The 'Stream Profiles' option under the Video menu is selected. The main content area is titled 'Stream Profile List' and contains a table with three columns: Name, Description, and Video enc. The table lists five profiles: Quality, Balanced, Bandwidth, Mobile, and mjpeg. The 'mjpeg' profile is highlighted in yellow. Below the table are four buttons: Add..., Copy..., Modify..., and Remove.

Name	Description	Video enc.
Quality	Best image quality and full frame rate.	H.264
Balanced	Medium image quality and frame rate.	H.264
Bandwidth	Low bandwidth with medium image quality.	H.264
Mobile	Mobile device settings.	H.264
mjpeg		MJPEG

Note

You should now see a new stream profile called “mjpeg” at the bottom of the Stream Profile List.

Stream profile

Motion JPEG ▼



13. Click the **Live View** tab located on the top right of the screen. The displayed image should be rotated 90 degrees counterclockwise.

PRESENTATION CREATION

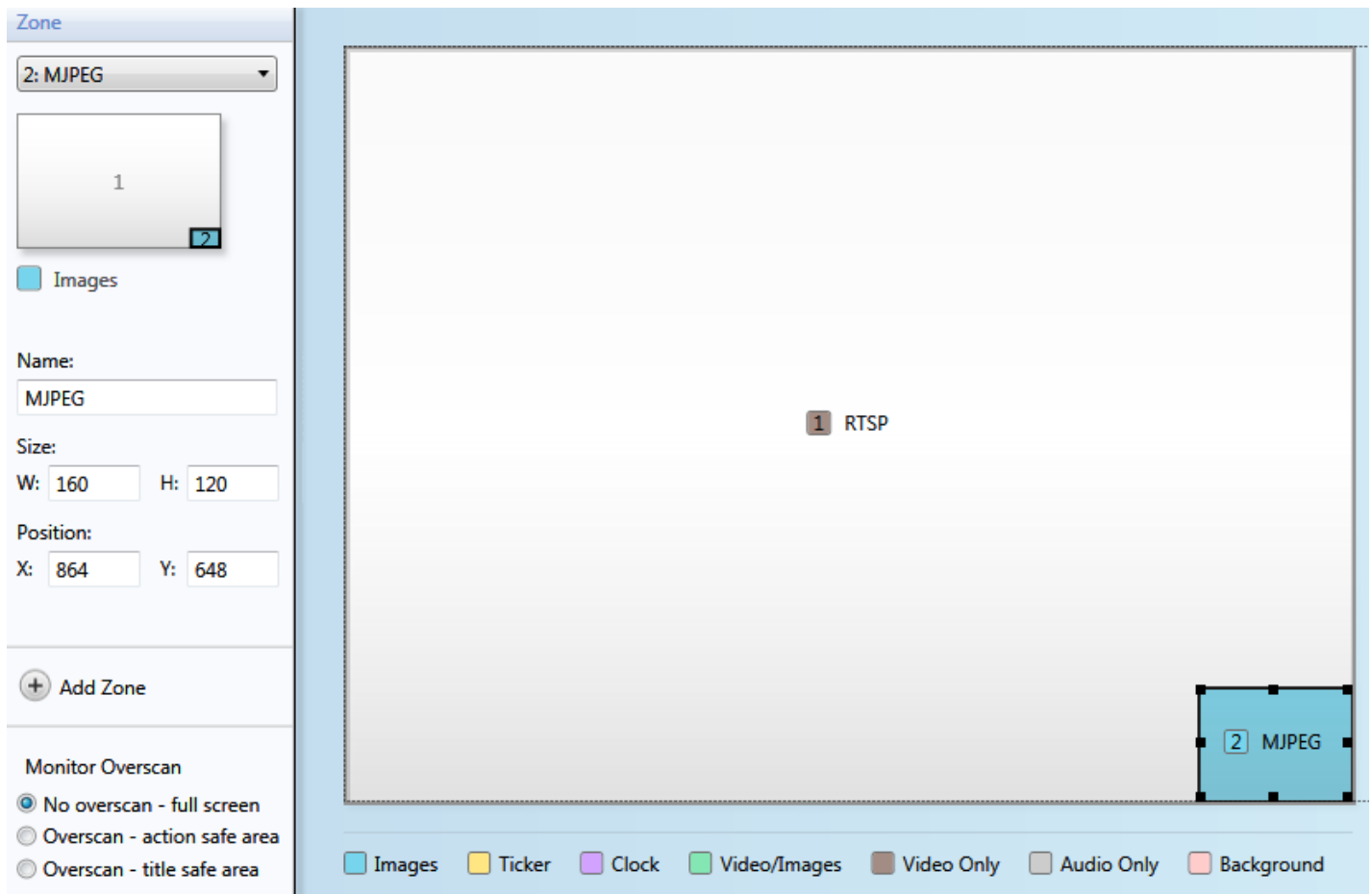
This chapter will guide you through the process of creating BrightAuthor presentations that utilize both the RTSP and MJPEG video streams. The first sections outline how to set up basic presentations with two video windows. Subsequent sections will describe some of the advanced presentation features you can add to this basic functionality. For additional information on creating presentations in BrightAuthor, refer to the [BrightAuthor User Guide](#).

Creating a Picture-in-Picture Video Presentation

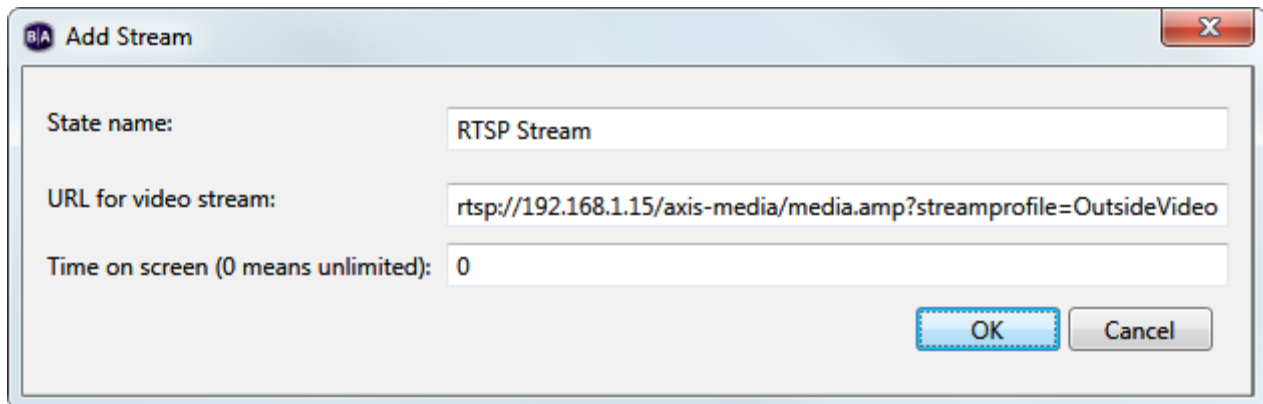
1. Start a new presentation in BrightAuthor for your networked BrightSign player.
2. Create a Video Only zone and an Images zone.
 - a. Expand the Video Only zone so that it covers the entire area.
 - b. Define the width of the Images zone as 160 and the height as 120.

Note

A display resolution of 160x120 ensures the best video quality for the MJPEG stream. You can increase or decrease the size to achieve the overlap you most prefer. However, for best results, you must have the same resolution that you entered during the [Mjpeg profile setup](#).



3. Navigate to the **Edit > Playlist** tab.
4. While editing the Video zone, do the following:
 - a. Click the **Other** tab in the **Media Library**.
 - b. Drag and drop the Video Stream icon into the playlist.
 - c. Enter a name of your choosing in the **State name** field.
 - d. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
rtsp://192.168.1.15/axis-media/media.amp?videocodec=h264
 - e. Type "0" in the **Time on screen** field. This will make the RTSP stream a permanent object in the presentation.
 - f. Click **OK**.



The screenshot shows a dialog box titled "Add Stream" with a close button (X) in the top right corner. Inside the dialog, there are three text input fields and two buttons. The first field is labeled "State name:" and contains the text "RTSP Stream". The second field is labeled "URL for video stream:" and contains the text "rtsp://192.168.1.15/axis-media/media.amp?streamprofile=OutsideVideo". The third field is labeled "Time on screen (0 means unlimited):" and contains the text "0". At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

5. While editing the Images zone, do the following:
 - a. Click the **Other** tab in the **Media Library**.
 - b. Drag and drop the Mjpeg Stream icon into the playlist.
 - c. Enter a name of your choosing in the **State name** field.
 - d. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
http://192.168.1.13/mjpg/video.mjpg?streamprofile=mjpeg
 - e. Set the **Rotation** to 0 degrees using the dropdown menu.
 - f. Type "0" in the **Time on screen** field. This will make the MJPEG stream a permanent object in the presentation.
 - g. Click **OK**.
6. Navigate to the **Publish** tab.
7. Publish the presentation to your BrightSign player using your desired method.

Optional

You can schedule the presentation so that it only displays during a certain time (for example, during work hours or during a certain employee's shift) while working in the **Publish** tab. Note that this will only turn off the presentation, not the Axis camera or the monitor.

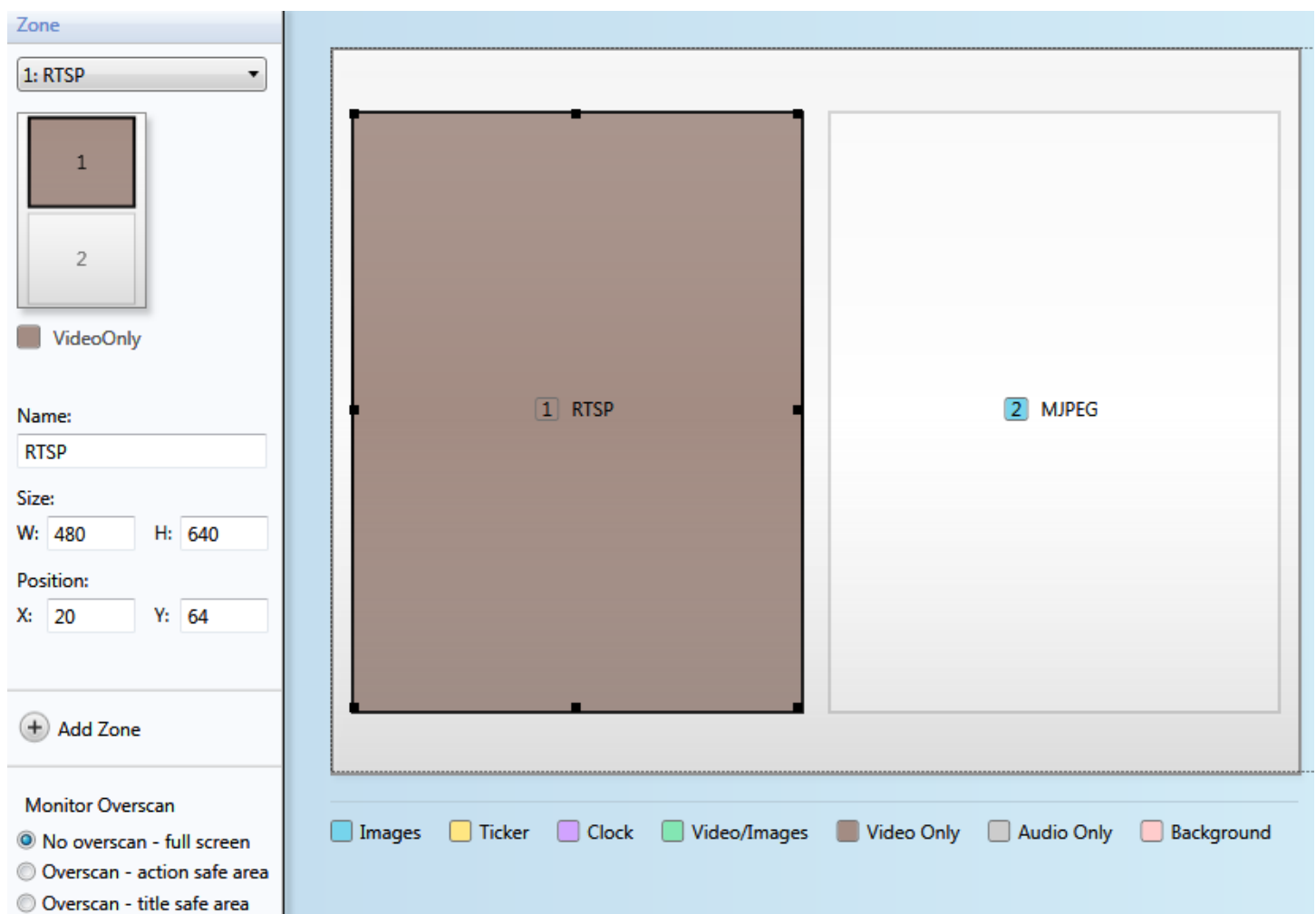
Creating a Dual-Picture Presentation

This section will show you how to create a two-video presentation without overlap. This presentation uses a portrait monitor orientation to get the largest video resolutions possible. You also can use a landscape orientation, but the resolutions for both videos will be significantly smaller.

Note

This setup requires you to physically orient the monitor so that it displays like a portrait, rather than a landscape. This may be difficult to do with many brands of monitors.

1. Begin a new presentation in BrightAuthor for your networked BrightSign player.
2. Set the **Monitor orientation** to "Portrait" in the **New project** window, which appears when you choose to create a new presentation.
3. Create a Video Only zone and an Images zone.
4. Set the width and height of each zone to 480 by 640. Change the [Mjpeg stream profile](#) so that it matches this resolution.
5. Set the position of the video window you want on top to 20(X) and 65(Y).



Zone

1: RTSP

1

2

VideoOnly

Name:
RTSP

Size:
W: 480 H: 640

Position:
X: 20 Y: 64

+ Add Zone

Monitor Overscan

☒ No overscan - full screen

☐ Overscan - action safe area

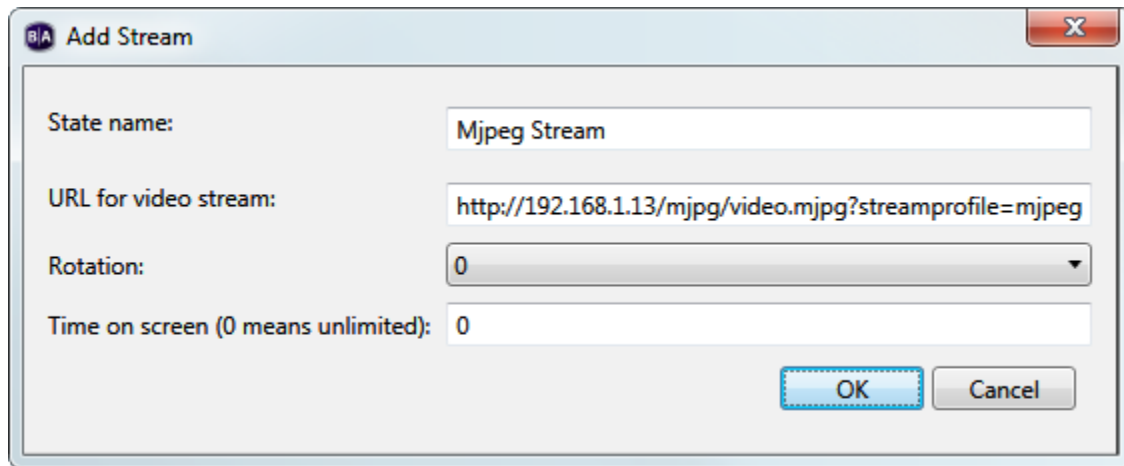
☐ Overscan - title safe area

1 RTSP

2 MJPEG

Images Ticker Clock Video/Images Video Only Audio Only Background

6. Set the position of the video window you want on the bottom to 524(X) and 65(Y).
7. Navigate to the **Edit > Playlist** tab.
8. While editing the Video zone, do the following:
 - a. Click the **Other** tab in the **Media Library**.
 - b. Drag and drop the Video Stream icon into the playlist.
 - c. Enter a name of your choosing in the **State name** field.
 - d. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
rtsp://192.168.1.15/axis-media/media.amp?videocodec=h264
 - e. Type "0" in the **Time on screen** field. This will make the RTSP stream a permanent object in the presentation.
 - f. Click **OK**.
9. While editing the Images zone, do the following:
 - a. Click the **Other** tab in the **Media Library**.
 - b. Drag and drop the Mjpeg Stream icon into the playlist.
 - c. Enter a name of your choosing in the **State name** field.
 - d. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
http://192.168.1.13/mjpg/video.mjpg?streamprofile=mjpeg
 - e. Set the **Rotation** to 0 degrees using the dropdown menu.
 - f. Type "0" in the **Time on screen** field. This will make the MJPEG steam a permanent object in the presentation.
 - g. Click **OK**.



Add Stream

State name: Mjpeg Stream

URL for video stream: http://192.168.1.13/mjpg/video.mjpg?streamprofile=mjpeg

Rotation: 0

Time on screen (0 means unlimited): 0

OK Cancel

8. Navigate to the **Publish** tab.
9. Publish the presentation to your BrightSign player using your desired method.

Optional

You can schedule the presentation so that it only displays during a certain time (for example, during work hours or during a certain employee's shift) while working in the **Publish** tab. Note that this will only turn off the presentation, not the Axis camera or the monitor.

Creating an Interactive Presentation using a BP200/900 USB Button Panel

This section will show you how to create an interactive presentation that works with a [BP200](#) or [BP900](#). This presentation will be nearly identical to the one demonstrated in the [Creating a Picture-in-Picture Presentation](#) section, but this presentation will allow the viewer to toggle the MJPEG video on and off at will by pressing a button on the BP device.

Note

The BP200 and BP900 devices connect to a BrightSign player through USB. Therefore, you must have the HD1020, XD1030, or XD1230 in order to create this presentation.

1. Start a new presentation in BrightAuthor for your networked BrightSign player.
2. Create a Video Only zone and an Images zone.
 - a. Expand the Video Only zone so that it covers the entire area.
 - b. Define the width of the Images zone as 160 and the height as 120.
3. Navigate to the **Edit > Playlist** tab.
4. While editing the Video zone, do the following:
 - a. Click the **Other** tab in the **Media Library**.
 - b. Drag and drop the Video Stream icon into the playlist.
 - c. Enter a name of your choosing in the **State name** field.
 - d. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
rtsp://192.168.1.15/axis-media/media.amp?videocodec=h264
 - e. Type "0" in the **Time on screen** field. This will make the RTSP stream a permanent object in the presentation.
 - f. Click **OK**.
5. While editing the Images zone, do the following:
 - a. Change the **Playlist type** of the images zone to interactive.
 - b. Click the **Other** tab in the **Media Library**.
 - c. Drag and drop the Mjpeg Stream icon into the playlist.
 - d. Enter a name of your choosing in the **State name** field.
 - e. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
http://192.168.1.13/mjpg/video.mjpg?streamprofile=mjpeg
 - f. Set the **Rotation** to 0 degrees using the dropdown menu.
 - g. Type "0" in the **Time on screen** field. This will make the MJPEG steam a permanent object in the presentations.

- h. Click **OK**.
- i. Drag and drop the Event Handler icon into the playlist area. Make sure to set it as the initial state.
- j. Click the **Events** tab in the **Media Library**.
- k. Drag and drop the BP900A or BP200A event (depending on which button board you are using) onto the Event Handler icon.

BP200A Event

Specify Button Number: 2

☒ Press (First Touch)

☐ Press Continuous (Repeat interval in milliseconds)

Start state: MJPEG Stream Off

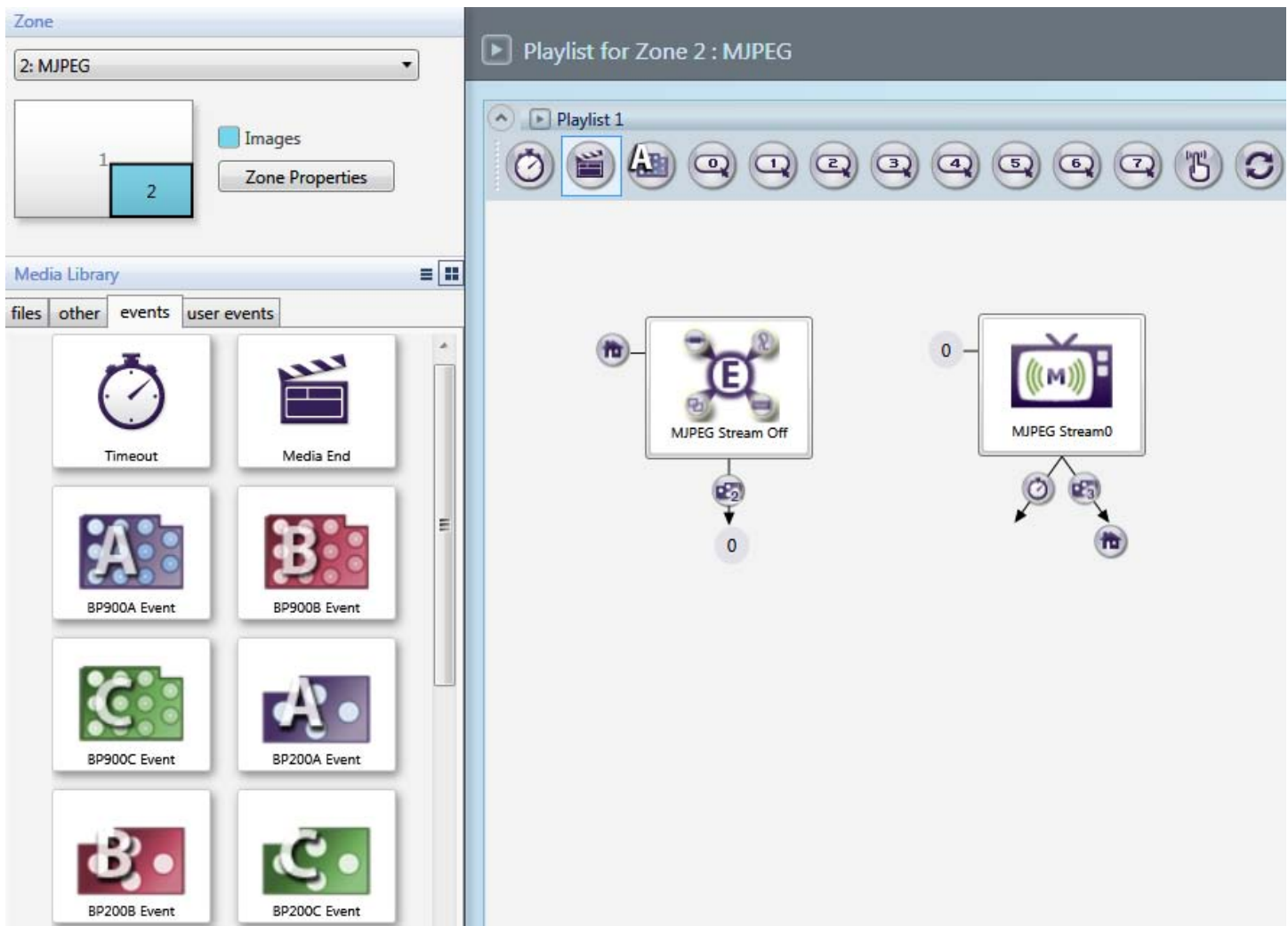
☒ Transition to new state

Specify next state: MJPEG Stream0

☐ Return to prior state

☐ Remain on current state

- l. Specify the desired BP number and touch characteristics to bring up the picture-in-picture.
- m. Select **Transition to new state** and choose the MJPEG Stream event from the drop-down menu.
- n. Click **OK**.
- o. Drag and drop a second BP900A or BP200A event onto the MJPEG stream event.
- p. Select the number and touch characteristics and set the event to **Return to prior state**.
- q. Click **OK**.



You are now ready to publish a presentation that will switch between a single video stream and a picture-in-picture video stream with the touch of a BP200A or BP900A button panel.

Creating a Touch-Screen Interactive Presentation

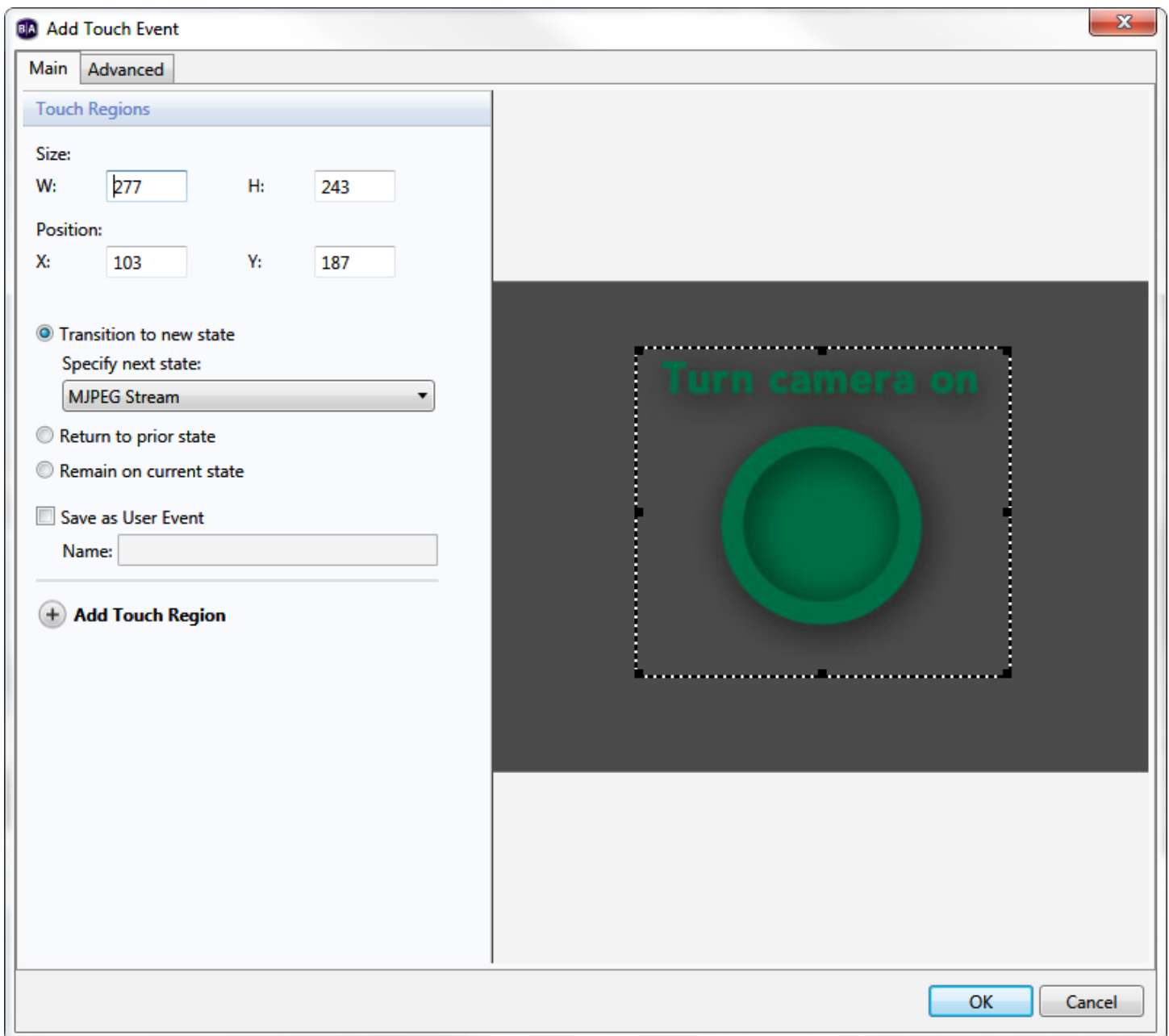
This section will show you how to create an interactive presentation that works with a touch-screen monitor. This presentation will be nearly identical to the one demonstrated in the [Creating a Dual-Picture Presentation](#) section, but the presentation outlined here will allow the viewer to toggle the MJPEG video on and off at will by pressing an area on the lower half of the touch screen.

Note

Some touch-screen monitors use a serial connection through VGA, which works on with any BrightSign player, while others require a USB 2.0 port, which is only available on the HD1020, XD1030, or XD1230.

1. Create a new presentation for your networked BrightSign player.

2. Set the **Monitor orientation** to “Portrait” in the **New project** window, which appears when you choose to create a new presentation.
3. Create a Video Only zone and an Images zone.
4. Set the width and height of each zone to 480 by 640. Change the [Mjpeg stream profile](#) so that it matches this resolution
5. Set the position of the video window you want on top to 20(X) and 65(Y).
6. Set the position of the video window you want on the bottom to 524(X) and 65(Y).
7. Navigate to the **Edit > Playlist** tab.
8. While editing the Video zone, do the following:
 - a. Click the **Other** tab in the **Media Library**.
 - b. Drag and drop the Video Stream icon into the playlist.
 - c. Enter a name of your choosing in the **State name** field.
 - d. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
rtsp://192.168.1.15/axis-media/media.amp?videocodec=h264
 - e. Type “0” in the **Time on screen** field. This will make the RTSP stream a permanent object in the presentation.
 - f. Click **OK**.
10. While editing the Images zone, do the following:
 - a. Change the **Playlist type** of the images zone to interactive.
 - b. Click the **Other** tab in the **Media Library**.
 - c. Drag and drop the Mjpeg Stream icon into the playlist.
 - d. Enter a name of your choosing in the **State name** field.
 - e. Enter the following URL exactly as follows into the **URL for video stream** field (unless you assigned a different IP address when [you set up the camera](#)):
http://192.168.1.13/mjpg/video.mjpg?streamprofile=mjpeg
 - f. Set the **Rotation** to 0 degrees using the dropdown menu.
 - g. Type “0” in the **Time on screen** field.
 - h. Click **OK**.
 - i. Drag and drop the image that you want the user to touch to bring up the MJPEG stream.
 - j. Check the **Set as initial state** box.
 - k. Drag and drop a Rectangular Touch event onto the image.
 - l. Set the **Size** and **Position** of the boundaries for the touch event.
 - m. Select **Transition to new state** and choose the MJPEG Stream event from the drop-down menu.
 - n. Click **OK**.



- o. Drag and drop another Rectangular Touch event onto the MJPEG Stream.
- p. Set the **Size** and **Position** of the boundaries for the touch event and set the event to **Return to prior state**.

ADVANCED: Using More than Two Axis Cameras in a Presentation

Presentation Overview

You can create a BrightSign presentation that utilizes as many Axis Network Cameras as you would like. You must have a piece of hardware that will allow the viewer to switch between cameras (a touch screen or a BP200/BP900 USB device, for example). The following setup utilizes the

same [Picture-in-Picture](#) presentation outlined above. Refer to that section for the basic setup details. These advanced instructions assume some basic familiarity with the BrightAuthor software. See the [BrightAuthor User Guide](#) for more details.

The presentation created in this section will allow viewers to cycle through the picture-in-picture camera streams and toggle between showing and hiding the picture-in-picture zone. They will also be able to make any picture-in-picture stream into a full-size video with the press of a button.

Finding Stream URLs

To set up each Axis Network Camera, follow the steps outlined in the [MJPEG Camera](#) section. The BrightAuthor presentation will require both the RTSP and MJPEG source for each camera. The following steps explain how to find them.

Note

In order to find the URLs for both video streams, you will need to use the “developer” tools offered by Google Chrome or Mozilla Firefox.

Repeat the following steps for each Axis Network Camera you plan to use in your monitoring network.

1. Navigate to the configuration page of your Axis Network Camera (see the beginning of the [Camera Setup](#) section if you forget how to reach this page).
2. Click the **Live View** tab located on the top right of the screen of the Axis Network Camera configuration page.
3. Select the **Stream Profile** dropdown menu in the upper-left side of the screen.
4. First, select the “H.264” option:
 - a. Right-click the video pane at the center of the screen.
 - b. Select **Inspect Element**. You should see a separate screen that outlines the HTML code of the Live View page. The video element should already be selected for you.

```
<param name="src" value="/view/AxisMoviePoster.mov">
<param name="autoplay" value="true">
<param name="controller" value="true">
<param name="qtsrc" value="rtsp://10.1.0.29:554/axis-media/media.amp?videocodec=h264">
<embed src="/view/AxisMoviePoster.mov" width="640" height="496" qtsrc="rtsp://10.1.0.29:554/axis-media/media.amp?
videocodec=h264" autoplay="true" controller="true" target="myself" pluginspage="http://www.apple.com/quicktime/download/">
</object>
```

- c. Copy the URL between the quote marks after **qtsrc=**. This is the URL for the RTSP video stream. Remember that the address for your camera will most likely be different from the address in the above screenshot.
5. Select the **Stream Profile** dropdown menu again.
 6. Change the option to “mjpeg” (this is the profile you created while setting up the camera):
 - a. Right-click the video pane at the center of the screen.
 - b. Select **Inspect Element**. You should see a separate screen that outlines the HTML code of the Live View page. The video element should already be selected for you.

```
<td colspan="3" align="center">

<br>
</td>
```

- c. Copy the URL between the quote marks after **rsc=**. This is the URL for the MJPEG video stream. Remember that the address for your camera will most likely be different from the address in the above screenshot.
- d. You will have to append the IP address of the camera to the front of this URL. For example, if the IP address of your camera is 192.168.1.13 (as in the MJPEG Setup example), then the complete URL will be the following :
<http://192.168.1.13/mjpg/video.mjpg?streamprofile=mjpeg>

Configuring the Images Zone

Once you have the RTSP and MJPEG URLs for each Axis Network Camera, you will now be able to create your BrightAuthor presentation:

Note

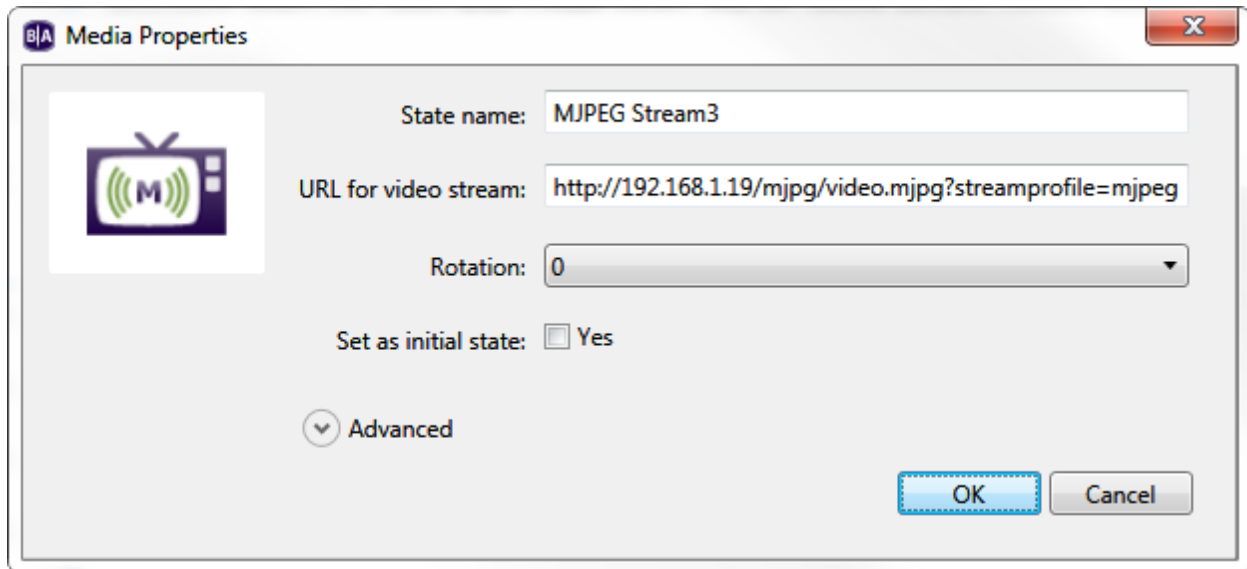
The BP200 and BP900 devices connect to a BrightSign player through USB. Therefore, you must have the HD1020, XD1030, or XD1230 in order to create this presentation.

1. Start a new presentation in BrightAuthor for your networked BrightSign player.
2. Create a Video Only zone and an Images zone.
 - a. Expand the Video Only zone so that it covers the entire area.
 - b. Define the width of the Images zone as 160 and the height as 120.
3. Navigate to the **Edit > Playlist** tab.
4. Select the Images zone.
5. Create an Event Handler state and make it the home screen.
6. Create as many Mjpeg Stream states as you have Axis Network Cameras (in this example, there are four).

Hint

Giving each camera a number, and naming the Mjpeg Stream events according to these numbers, will help you keep track the cameras while linking them across zones.

7. Enter each Mjpeg URL into each corresponding state.



The image shows a 'Media Properties' dialog box with a television icon and the letter 'M' inside. The 'State name' field is set to 'MJPEG Stream3'. The 'URL for video stream' field contains the URL 'http://192.168.1.19/mjpg/video.mjpg?streamprofile=mjpeg'. The 'Rotation' dropdown menu is set to '0'. The 'Set as initial state' checkbox is unchecked. There is an 'Advanced' section with a downward arrow. At the bottom right are 'OK' and 'Cancel' buttons.

Media Properties

State name: MJPEG Stream3

URL for video stream: http://192.168.1.19/mjpg/video.mjpg?streamprofile=mjpeg

Rotation: 0

Set as initial state: ☐ Yes

Advanced

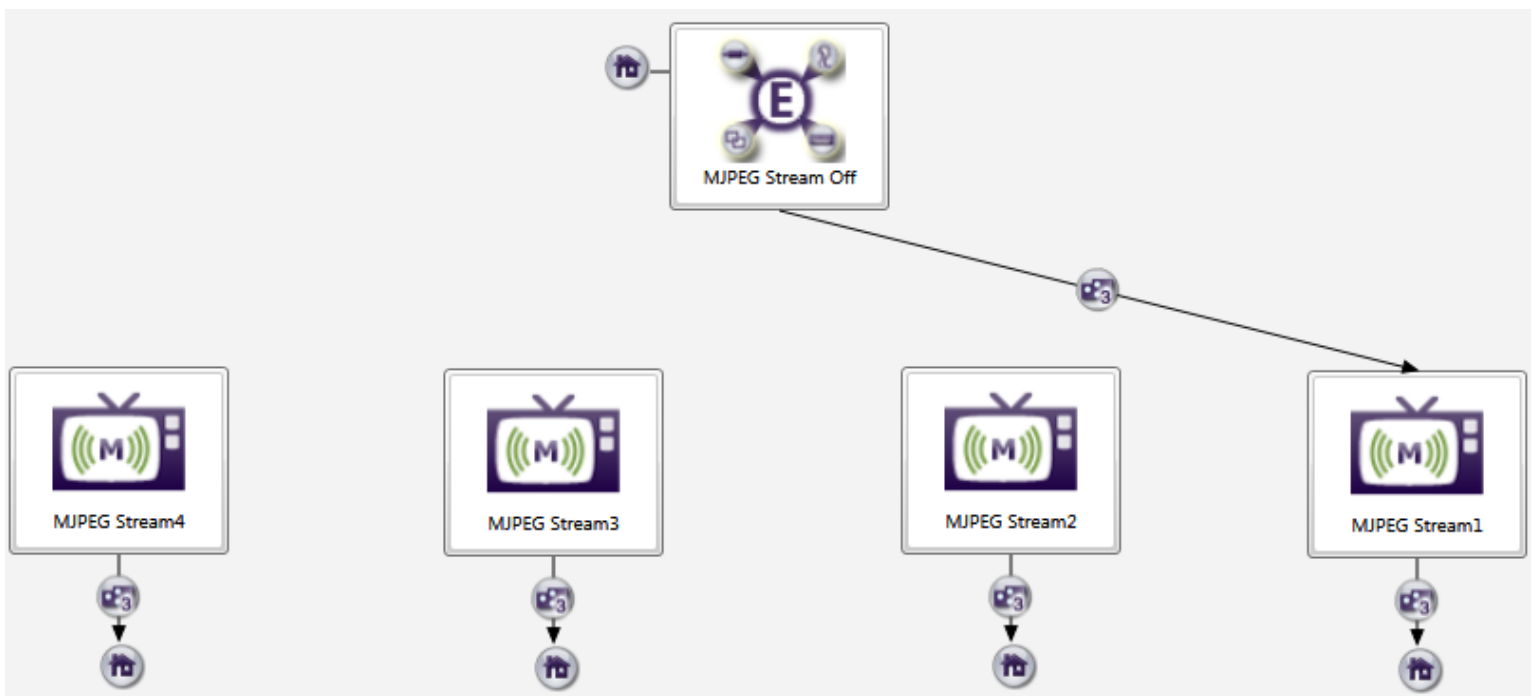
OK Cancel

8. Create a new BP200A Event for the Event Handler state.

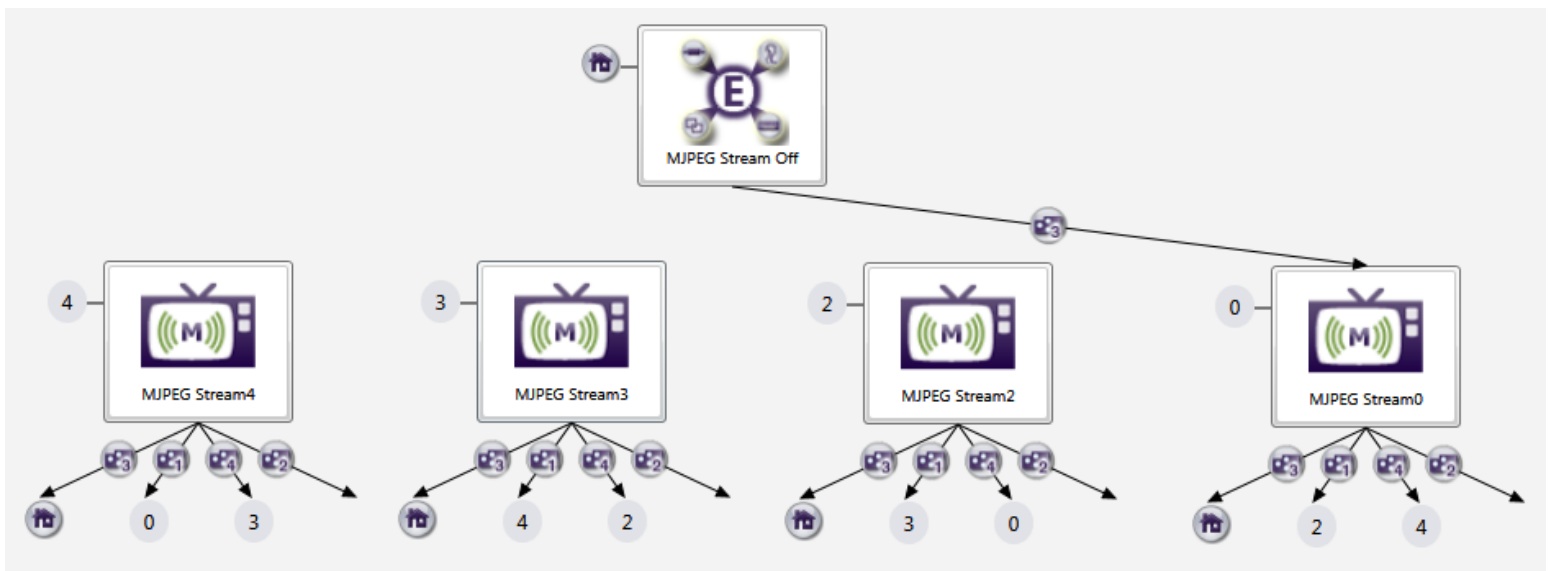
- Set the button number to 3.
- Set the event to transition to the first Mjpeg Stream state.

9. Create a new BP200A event for each of the Mjpeg Stream states. Do the following for each:

- Set the button number to 3.
- Set the event to transition to the Event Handler state. This setup will allow the user to turn the picture-in-picture on and off at will by pressing 3 on the button board.



10. Create another new BP200A event for each of the Mjpeg Stream states.
 - a. Set the button number to 1.
 - b. Set the event to transition to the next Mjpeg Stream state. For example, the button event on Stream 2 transitions to Stream 3, and Stream 4 (the last stream) transitions back to Stream 1 (the first stream).
11. Create a third new BP200A event for each of the Mjpeg Stream states.
 - a. Set the button number to 4.
 - b. Set the event to transition to the previous Mjpeg Stream state. For example, the button event on Stream 2 transitions to Stream 1, and Stream 1 (the first stream) transitions to Stream 4 (the last stream).
12. Create a fourth new BP200A event for each of the Mjpeg Stream states.
 - a. Set the button number to 2.
 - b. Set the event to remain on the current state.
 - c. Click the **Add Command** button located at the bottom of the window and choose **Send Zone Message** from the dropdown menu. You can set the **Parameters** to whatever you would like, but it will be easier to keep track of each Zone Message by including the number of the Mjpeg Stream state to which it is attached (for example, the BP200A Event attached to MJPEG Stream 2 could send a Zone Message with the parameters "Stream2").

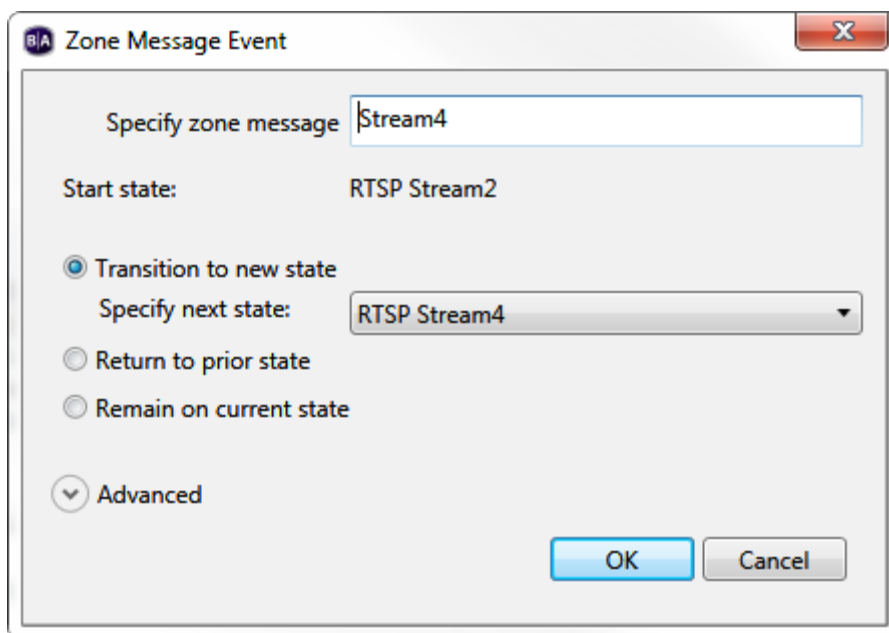


Viewers can now cycle backward and forward through the picture-in-picture streams using the left (1) and right (4) BP buttons. They can also toggle between showing and hiding the picture-in-picture using the down (3) button. Finally, they can use the up (4) button to take the small picture-in-picture video zone and make it full screen. The next section outlines setting up the full screen video zone.

Configuring the Video Only Zone

Switch to the Video Only zone to create the full-screen portion of this presentation.

1. Create as many Video Stream states as you have Axis Network Cameras. Naming and numbering these states similarly to the Mjpeg Stream states will make linking them easier. For example, Video Stream 2 and Mjpeg Stream 2 will each use a URL you [retrieved from the same camera configuration page](#).
2. Enter each RTSP URL into each corresponding state.
3. For each Video Stream state, complete the following steps:
 - a. Drag and drop a Zone Message event onto the Video Stream state.
 - b. Set the event to transition to another Video Stream. In the **Specify zone message** field, enter the parameter that you created for the Send Zone Message command you created for the Mjpeg Stream state that *corresponds* to this Video Stream state.

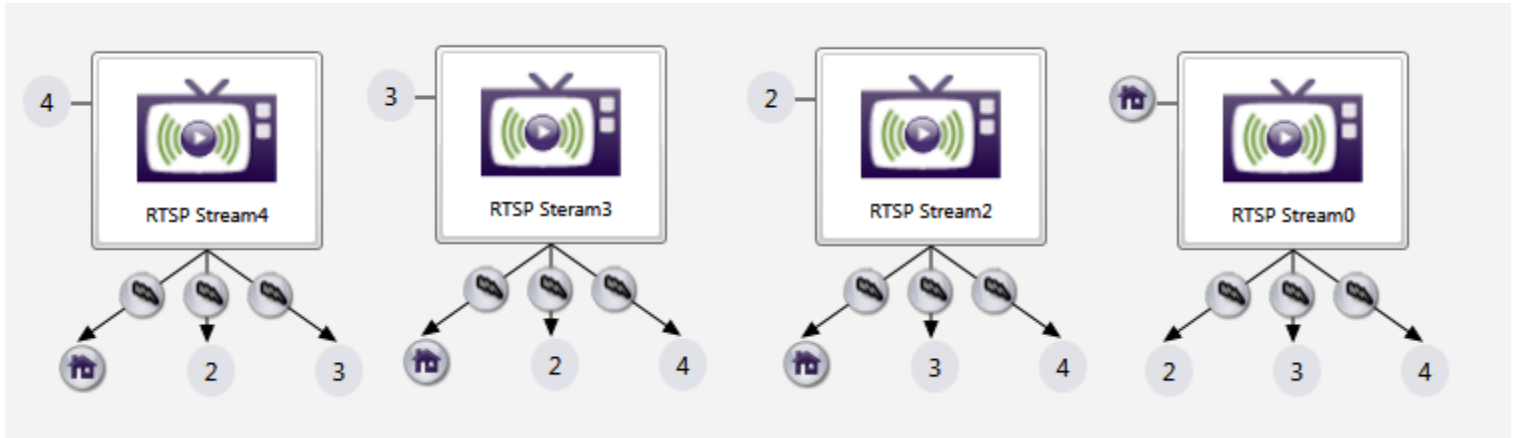


Example

Notice in the above screenshot that the Zone Message Event is changing the state from RTSP Stream 2 to RTSP Stream 4, and that this event occurs when the zone message "Stream4" is sent from the Images zone. Therefore, the order of events is Mjpeg Stream 4>zone message "Stream4" > Video Stream 4.


In other words, if the picture-in-picture is showing Mjpeg Stream 4, and the full screen is showing RTSP Stream 2, then pressing the up (2) button on the BP200A will cause the full screen to change to RTSP Stream 4, which is simply a higher quality video stream (H.264 vs. motion jpeg) from the same camera.

4. Create a new Zone Message event for each other Video Stream in the Video Only zone. If you have four Video Streams in total, for example, you will need to create three Zone Message events for the state.
5. Remember to repeat this process for each Video Stream state you control. This will allow viewers to switch from any stream to any other stream via button press.



APPENDIX OF SCREENSHOTS

The following is a comprehensive list of screen shots of all configuration pages for the Axis M1103/M1113 Network Camera (excluding those shown in the sections above):

**AXIS M1103 Network Camera**

Live View | Setup | Help

▼Basic Setup

Instructions

1 Users

2 TCP/IP

3 Date & Time

4 Video Stream

▶Video

▶Live View Config

▶PTZ

▶Events

▶System Options


About

Basic Setup

Before using the AXIS M1103 Network Camera, there are certain settings that should be made, most of which require Administrator access privileges. To quickly access these settings, use the numbered shortcuts to the left. All the settings are also available from the standard setup links in the menu.

Note that the only required setting is the IP address, which is set on the TCP/IP page. All other settings are optional. Please see the online help for more information.

Firmware version: 5.09
MAC address: 00:40:8C:BA:5F:4E

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About

Date & Time Settings

Current Server Time

Date: 2010-08-20 Time: 11:47:30

New Server Time

Time zone: GMT (Dublin, Lisbon, London, Reykjavik)

☐ Automatically adjust for daylight saving time changes.

Time mode:

☐ Synchronize with computer time

Date: 2012-08-14 Time: 11:30:27

☒ Synchronize with NTP server

NTP server: [No server specified](#)

☐ Set manually

Date: 2010-08-20 Time: 11:47:15

Date & Time Format Used in Images


Specify date format: ☒ Predefined YYYY-MM-DD

☐ Own %F

Specify time format: ☒ Predefined 24h With resolution: 1 second

☐ Own %T

Save Reset



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Basic Setup

[Instructions](#)

[1 Users](#)

[2 TCP/IP](#)

[3 Date & Time](#)

[4 Video Stream](#)

Video

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PTZ

Events

System Options

About

Video Stream Settings

Image

H.264

MJPEG

GOV Settings

Length:

32

[1..61440]

Bit Rate Control

Use:

☒ Variable bit rate
 ☐ Constant bit rate

Target bit rate:

kbit/s

Priority:

None

Preview


View image stream while configuring.

Video format: MJPEG

Open...

Save

Reset



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Basic Setup

[Instructions](#)

[1 Users](#)

[2 TCP/IP](#)

[3 Date & Time](#)

[4 Video Stream](#)

Video

Live View Config

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Events

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About

Video Stream Settings

Image

H.264

MJPEG

Frame Size Control

Maximum frame size:

☒ Default
 ☐ Limited to kbytes

Preview

View image stream while configuring.

Video format: MJPEG

Open...

Save

Reset

30



AXIS M1103 Network Camera

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Basic Setup

Video

Video Stream

Stream Profiles

Camera Settings

Overlay Image

Privacy Mask

Live View Config

PTZ

Events

System Options

About

Stream Profile List


Name	Description	Video enc.
Quality	Best image quality and full frame rate.	H.264
Balanced	Medium image quality and frame rate.	H.264
Bandwidth	Low bandwidth with medium image quality.	H.264
Mobile	Mobile device settings.	H.264

Add...

Copy...

Modify...

Remove



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Basic Setup

Video

Video Stream

Stream Profiles

Camera Settings

Overlay Image

Privacy Mask

Live View Config

PTZ

Events

System Options

About

Camera Settings

Image Appearance

Color level:

50

[0..100]

Brightness:

50

[0..100]

Sharpness:

50

[0..100]

Contrast:

50

[0..100]

White Balance

White balance:

Automatic

Exposure Settings

Exposure value:

50

[0..100]

Exposure control:

Automatic

Enable Backlight compensation:

☒

Exposure zones:

☒ Auto

☐ Defined [center]

Edit...

Exposure priority:

Default

View Image Settings

View image after saving.

View...

Save

Reset



Basic Setup

Video

- Video Stream
- Stream Profiles
- Camera Settings
- Overlay Image**
- Privacy Mask

Live View Config

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System Options

About

Overlay Image



Upload own image:

Use overlay image:



Basic Setup

Video

- Video Stream
- Stream Profiles
- Camera Settings
- Overlay Image
- Privacy Mask**

Live View Config

PTZ

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System Options

About

Privacy Masks



To define a new mask, click the Add-button. Enter a mask name and click Save. To edit a mask, select it in the list.

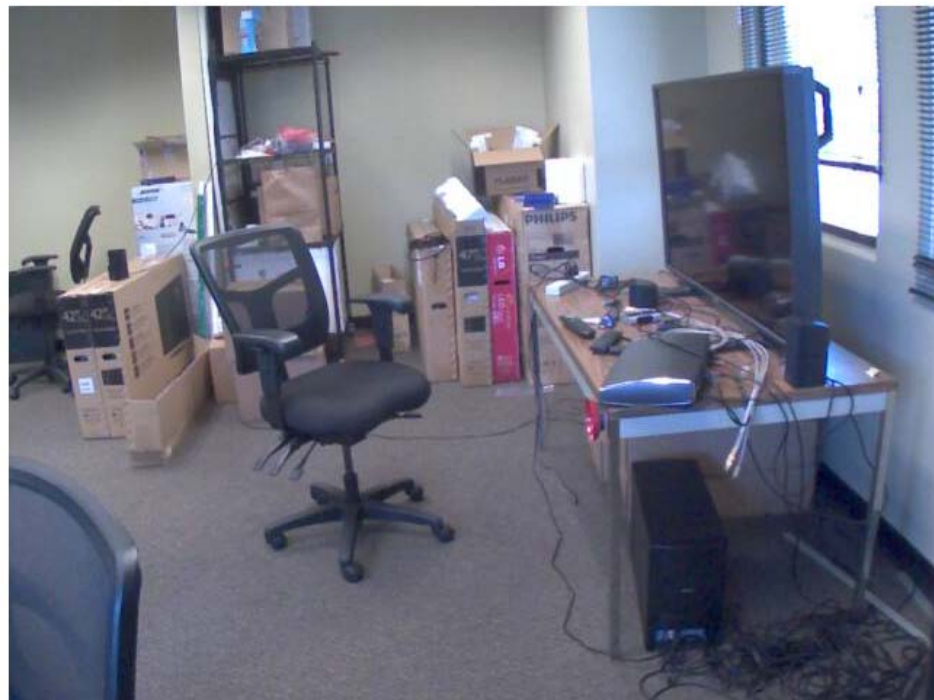
Privacy Mask List

Name	Enabled

Privacy mask color:

Add/Edit Mask

Mask name:





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- Video
- Live View Config
 - Layout**
- PTZ
- Events
- System Options
- About

Live View Layout

Stream Profile

Stream profile: Motion JPEG ▾

☒ Show stream profile selection

Default Viewer

Windows Internet Explorer: AMC (ActiveX) ▾

Other Browsers: Server push ▾

Note: QuickTime is only used with H.264. Motion JPEG will be shown with AMC in Windows Internet Explorer and with server push in other browsers.

Viewer Settings

☒ Show viewer toolbar

☒ Enable H.264 decoder installation

☒ Show crosshair in PTZ joystick mode*

☐ Use PTZ joystick mode as default*

☐ Enable recording button

*Not applicable to AMC (ActiveX).

Action Buttons

☐ Show manual trigger button

☐ Show snapshot button

User Defined Links

☐ Show custom link 1 Use as: ☒ cgi link ☐ web link

Name: Custom link 1 URL: http://

☐ Show custom link 2 Use as: ☒ cgi link ☐ web link

Name: Custom link 2 URL: http://

☐ Show custom link 3 Use as: ☒ cgi link ☐ web link


Name: Custom link 3 URL: http://

☐ Show custom link 4 Use as: ☒ cgi link ☐ web link

Name: Custom link 4 URL: http://

Save

Reset



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PTZ

PTZ Settings

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About

Pan Tilt Zoom Settings

?

Settings


☐ Enable digital PTZ

Max zoom: 1.25 (Max resolution: 640x480)

☐ Lock to current position

Save

Reset



AXIS M1103 Network Camera

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Basic Setup

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Events

Instructions

Event Servers

Event Types

Camera Tampering

Motion Detection

System Options

About

Event Servers

?

Event Server List

Name	Protocol	Network Address	Upload Path	User Name

Add FTP...

Add HTTP...


Add TCP...

Copy

Modify...

Remove

34



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[Event Servers](#)
[Event Types](#)
[Camera Tampering](#)
[Motion Detection](#)

System Options

About

Event Types

Event Type List

Name	Enabl.	Priority	Trig./Sched.	Actions*

Add triggered...


Add scheduled...

Copy

Modify...

Remove

* Fu=FTP upload, Hu=HTTP upload, Eu=Email upload, En=Email notification, Hn=HTTP notification, Tn=TCP notification, P=PTZ preset, G=Guard Tour



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About

Camera Tampering

Settings

Minimum duration:

20

seconds

☒ Alarm for dark images.

Save

Reset

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Motion Detection

☒ Configure Included Windows
☐ Configure Excluded Windows

Windows Name:	New	Del

Object Size

History

Sensitivity

Activity

☒ View All Windows
☐ View Selected Window

AXIS M1103 Network Camera

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 - IP Address Filter**
 - HTTPS
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IP Address Filtering

☐ Enable IP address filtering.

Allow ▾ the following IP addresses

Filtered IP Addresses

IP Addresses



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 - IP Address Filter
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HTTPS Settings



To enable HTTPS, create either a self-signed certificate, or create a request for a certificate from a Certificate Authority (CA.)

Although a self-signed certificate is useful for initially testing HTTPS, true security will only be implemented after the installation of a signed certificate issued by a certificate authority.

The HTTPS Connection Policy must also be set to enable HTTPS on this server.

Create & Install

[Create self-signed certificate...](#)[Create Certificate Request...](#)[Install signed certificate...](#)

Created Request

Subject Name	Created
--------------	---------

No certificate request created.

[Properties...](#)[Remove](#)

Installed Certificate

Subject Name	State
--------------	-------

No certificate configured.

[Properties...](#)[Remove](#)

HTTPS Connection Policy

Administrator will use: HTTP

Operator will use: HTTP

Viewer will use: HTTP

[Set Policy](#)

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- ▶ [Video](#)
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 - ▶ [QoS](#)
 - ▶ [SMTP \(email\)](#)
 - ▶ [SNMP](#)
 - ▶ [UPnP™](#)
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SOCKS Settings



SOCKS Settings

☐ Enable SOCKS

Server:

Server port:

Server type:

Local networks: (use ; to separate local networks)

Save

Reset

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QoS Settings



QoS DSCP Settings

Live Video DSCP: [0..63]

Event/Alarm DSCP: [0..63]

Management DSCP: [0..63]

Save

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SMTP (email) Settings ?

SMTP Settings

Primary mail server^{1,2}: (host name or IP address)

Primary server port: [0..65535]

☐ Use authentication to log in to this server.

Secondary mail server²: (host name or IP address)

Secondary server port: [0..65535]

☐ Use authentication to log in to this server.

From email address¹:

¹ Mandatory fields. If these are not set, no mail can be sent.

² If a host name is used, a valid DNS server must be specified in the TCP/IP network settings.

Test

Send test email to:

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SNMP Settings ?

SNMP v1/v2

Enable SNMP v1	<input type="checkbox"/>
Enable SNMP v2c	<input type="checkbox"/>
Read community:	<input type="text" value="public"/>
Write community:	<input type="text" value="write"/>

Traps for SNMP v1/v2

Enable traps	<input type="checkbox"/>
Trap address:	<input type="text"/>
Trap community:	<input type="text" value="public"/>

Available traps

Cold start	<input type="checkbox"/>
Warm start	<input type="checkbox"/>
Link up	<input type="checkbox"/>
Authentication failed	<input type="checkbox"/>

SNMP v3

☐ Enable SNMP v3

SNMP v3 initial user password:

Note: Initial user password is activated only when HTTPS is enabled and can only be set once.
If HTTPS is enabled, SNMP v1 and SNMP v2c should be disabled.

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UPnP™ Settings ?

☒ Enable UPnP™

Friendly name:

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RTP / H.264

Port Range

Start port: [1024..65534]

End port: [1025..65535]

Multicast

Video address:

Video port: [0, 1024..65534; even values only]*

Time to live: [1..255]

*0 = Port automatically selected within the port range specified above.

Save

Reset

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Bonjour Settings

☒ Enable Bonjour

Friendly name:

Save

Reset

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LED Settings



Status LED

Set the behavior of the Status Indicator LED.

- ☒ Normal - The LED shows green for normal operation.
- ☐ Off - The LED is off during normal operation.
- ☐ Flash - The LED flashes when the videostream is accessed.

Flash interval [1-30]

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System Overview

Firmware version: 5.09

Serial number: 00408CBA5F4E

[IP address](#): 192.168.1.15 (static)

[Date & Time](#)

[Connected clients](#): 1 Video ([View log](#))

Uptime: 33 days, 3 min

Recently used bandwidth: 0.25 Mbit/s

Time mode: NTP

Security

Defined users: 2

Anonymous access: View

HTTPS: No

IP address filter: Off

Optional Network Services

Service	Enabled	Protocol	Server port
FTP	Yes	TCP	21
RTSP	Yes	TCP	554
Bonjour	Yes	UDP	5353
HTTPS	No	TCP	443
SNMP	No	UDP	161
UPnP™	Yes	UDP	1900
		TCP	49152 (auto)
ARP/Ping IP address setting	Yes	-	-
Link-local address	Yes	-	-
NAT traversal	No	-	-
SOCKS	No	-	-
AXIS Internet Dynamic DNS	No	-	-
IP address filter	No	-	-

Event Settings

Defined: 0

Enabled: 0

Image Settings

	Res.	Comp.	Rot.	Color	Overlay
Camera :	640x480	30	0		None

Recent Log Items ([View all](#))

```
<INFO > Aug 14 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
<INFO > Aug 15 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
<INFO > Aug 16 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
<INFO > Aug 16 15:12:11 axis-00408cba5f4e monolith[480]: RTSP session 1858882B timed out.
<INFO > Aug 16 15:47:57 axis-00408cba5f4e monolith[480]: RTSP session E1C60B42 timed out.
<INFO > Aug 17 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
<INFO > Aug 18 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
<INFO > Aug 19 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
<INFO > Aug 20 11:15:24 axis-00408cba5f4e Language Handler[625]: Got connection, client fd: 5.
<INFO > Aug 20 11:57:33 axis-00408cba5f4e parhand[489]: Updated configuration file /etc/sysconfig/systime.conf.
```




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About

AXIS M1103 Network Camera

Firmware version: 5.09

MAC address: 00:40:8C:BA:5F:4E

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